WISCONSIN BIRCH
THE
"AMERICAN MAHOGANY"

PAINE LUMBER CO., Ltd.
OSHKOSH WIS., U.S.A.

SPECIAL BIRCH CATALOGUE.

PAINE LUMBER COMPANY,
LIMITED,

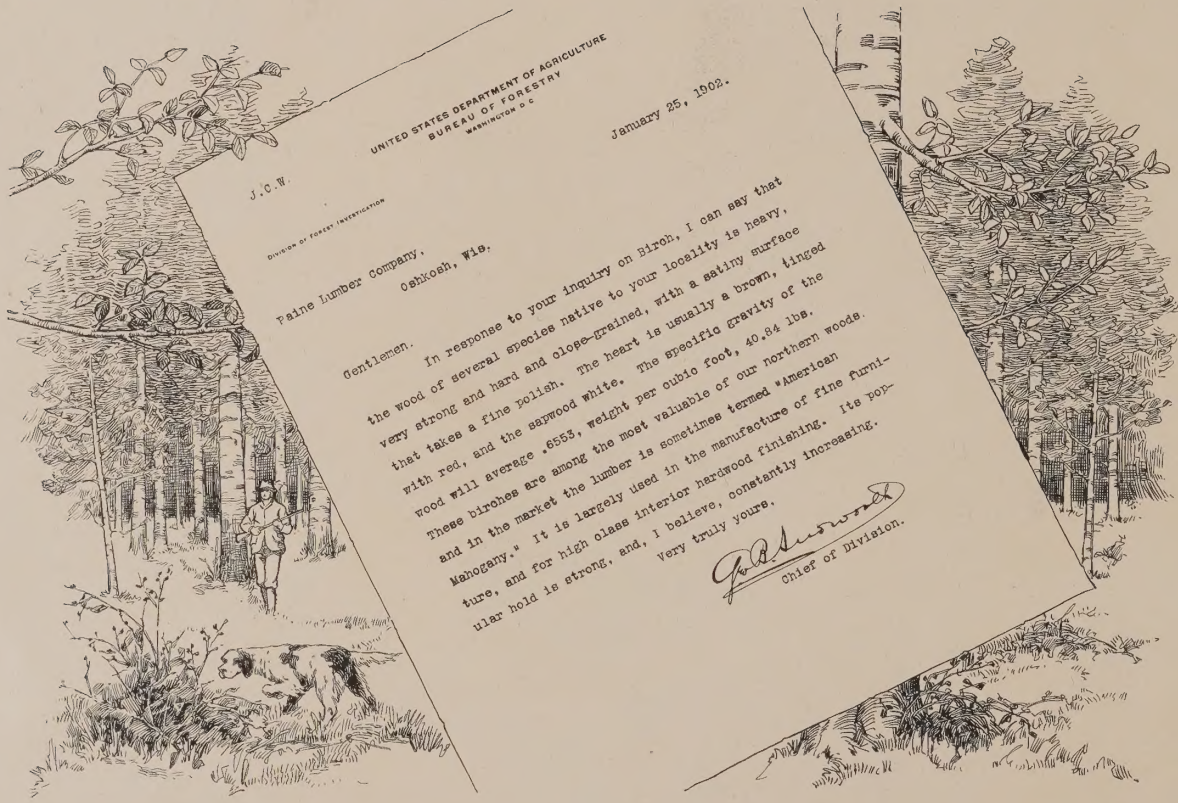
OSHKOSH, WISCONSIN, U.S.A.

WHOLESALE MANUFACTURERS OF

LUMBER AND WOODWORK.

VENEERED DOORS AND HARDWOOD
INTERIORS A SPECIALTY.

AVERY LIBRARY
COLUMBIA UNIVERSITY
AT
778
P161
1902



UNITED STATES DEPARTMENT OF AGRICULTURE
BUREAU OF FORESTRY
WASHINGTON D.C.

January 25, 1902.

J.C.W.

DIVISION OF FOREST INVESTIGATION

Paine Lumber Company,
Oshkosh, Wis.

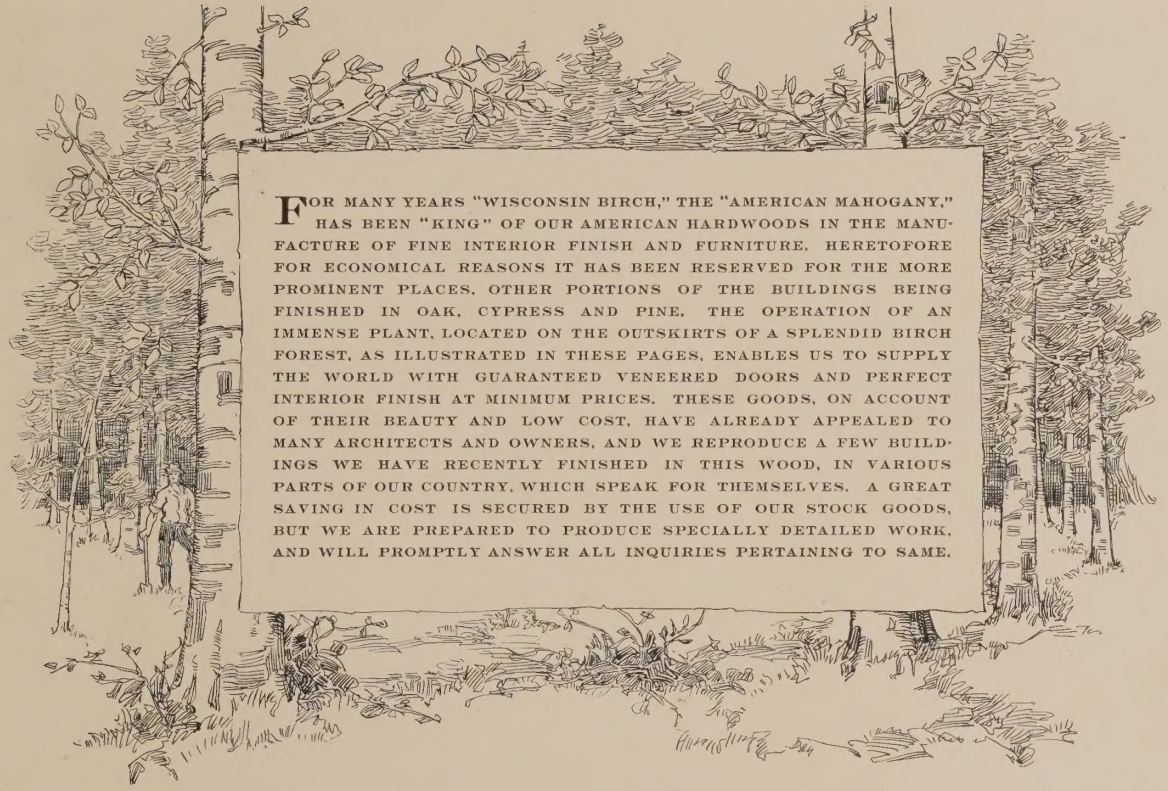
Gentlemen.

In response to your inquiry on Birch, I can say that the wood of several species native to your locality is heavy, very strong and hard and close-grained, with a satiny surface that takes a fine polish. The heart is usually a brown, tinged with red, and the sapwood white. The specific gravity of the wood will average .6553, weight per cubic foot, 40.84 lbs. These birches are among the most valuable of our northern woods and in the market the lumber is sometimes termed "American Mahogany." It is largely used in the manufacture of fine furniture, and for high class interior hardwood finishing. Its popular hold is strong, and, I believe, constantly increasing.

Very truly yours,

Chief of Division.

PRESS OF THE H. O. SHEPARD CO.
PRINTERS AND BINDERS
CHICAGO

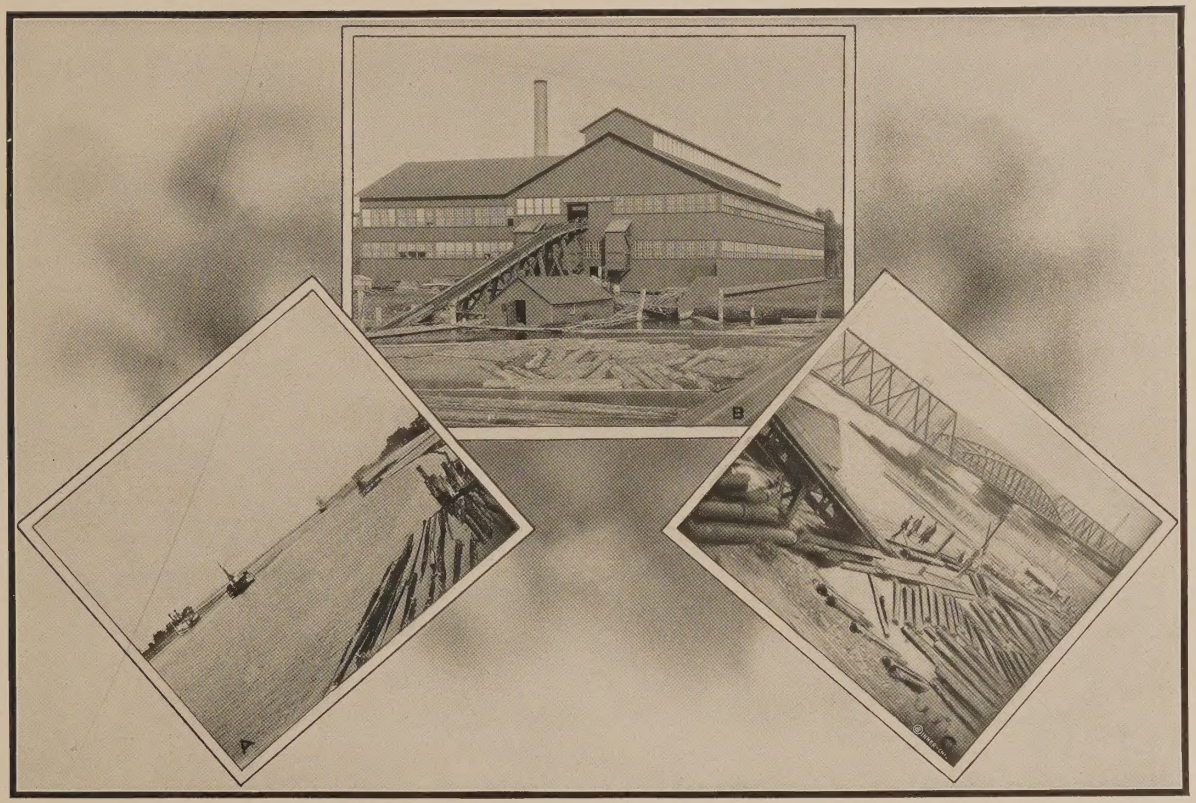


FOR MANY YEARS "WISCONSIN BIRCH," THE "AMERICAN MAHOGANY," HAS BEEN "KING" OF OUR AMERICAN HARDWOODS IN THE MANUFACTURE OF FINE INTERIOR FINISH AND FURNITURE. HERETOFORE FOR ECONOMICAL REASONS IT HAS BEEN RESERVED FOR THE MORE PROMINENT PLACES, OTHER PORTIONS OF THE BUILDINGS BEING FINISHED IN OAK, CYPRESS AND PINE. THE OPERATION OF AN IMMENSE PLANT, LOCATED ON THE OUTSKIRTS OF A SPLENDID BIRCH FOREST, AS ILLUSTRATED IN THESE PAGES, ENABLES US TO SUPPLY THE WORLD WITH GUARANTEED VENEERED DOORS AND PERFECT INTERIOR FINISH AT MINIMUM PRICES. THESE GOODS, ON ACCOUNT OF THEIR BEAUTY AND LOW COST, HAVE ALREADY APPEALED TO MANY ARCHITECTS AND OWNERS, AND WE REPRODUCE A FEW BUILDINGS WE HAVE RECENTLY FINISHED IN THIS WOOD, IN VARIOUS PARTS OF OUR COUNTRY, WHICH SPEAK FOR THEMSELVES. A GREAT SAVING IN COST IS SECURED BY THE USE OF OUR STOCK GOODS, BUT WE ARE PREPARED TO PRODUCE SPECIALLY DETAILED WORK, AND WILL PROMPTLY ANSWER ALL INQUIRIES PERTAINING TO SAME.

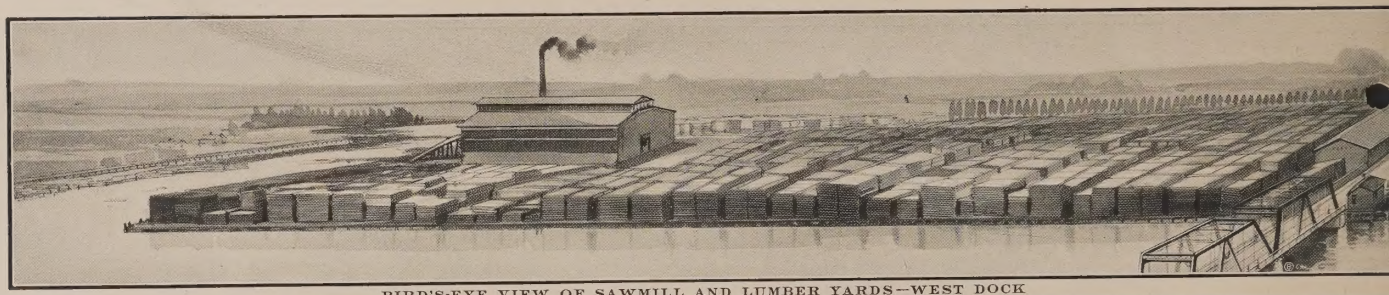
A TYPICAL WISCONSIN HARDWOOD FOREST. THE BIRCH TREE IN FOREGROUND IS 4 FEET IN DIAMETER

BIRCH SKIDWAY IN WISCONSIN HARDWOOD FOREST

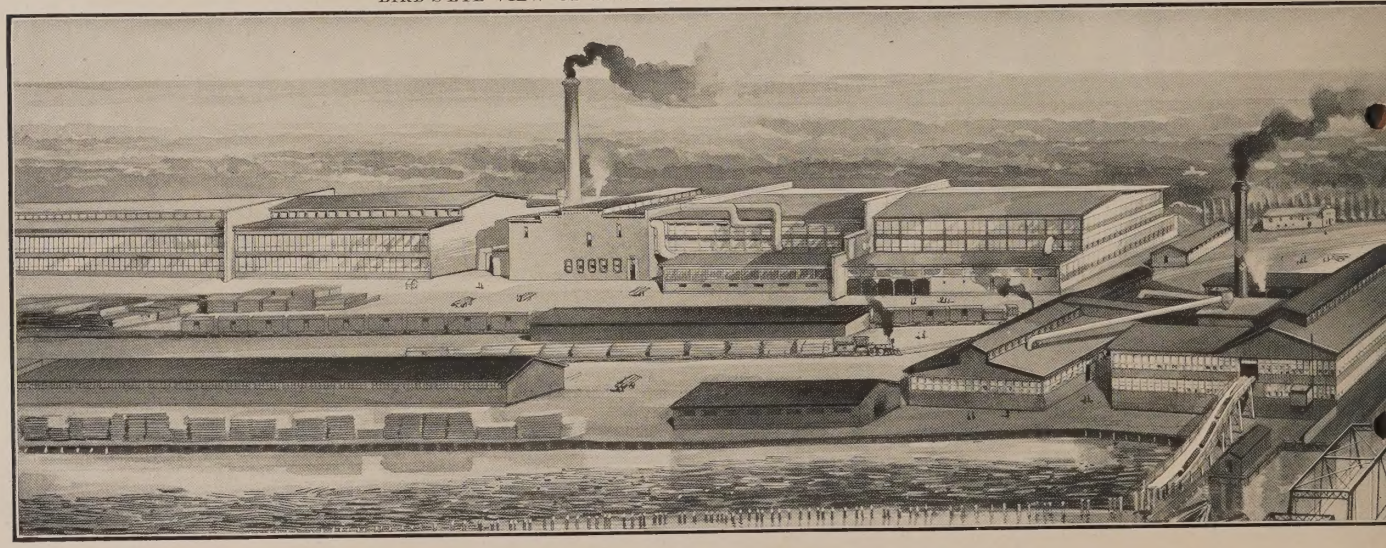
VIEW OF LOG TERMINALS AND SORTING WORKS



"A"—TUGS WITH LOG FLEETS IN TOW "B"—SAWMILL, EAST DOCK "C"—LOG SLIP

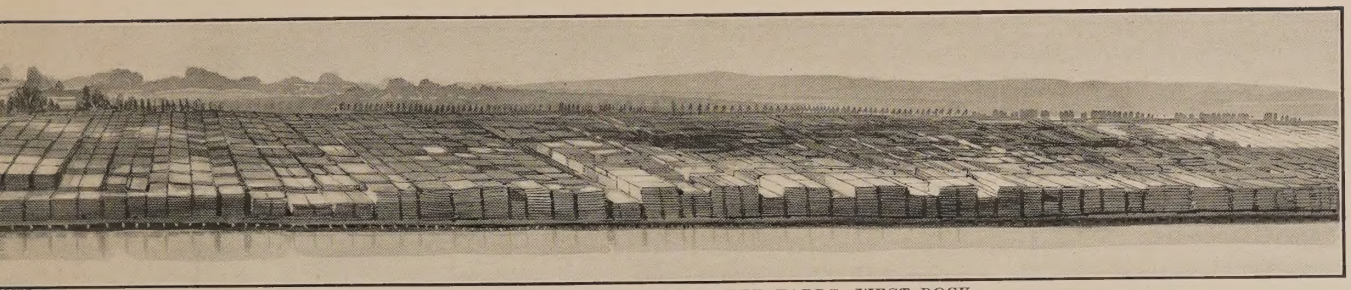


BIRD'S-EYE VIEW OF SAWMILL AND LUMBER YARDS—WEST DOCK

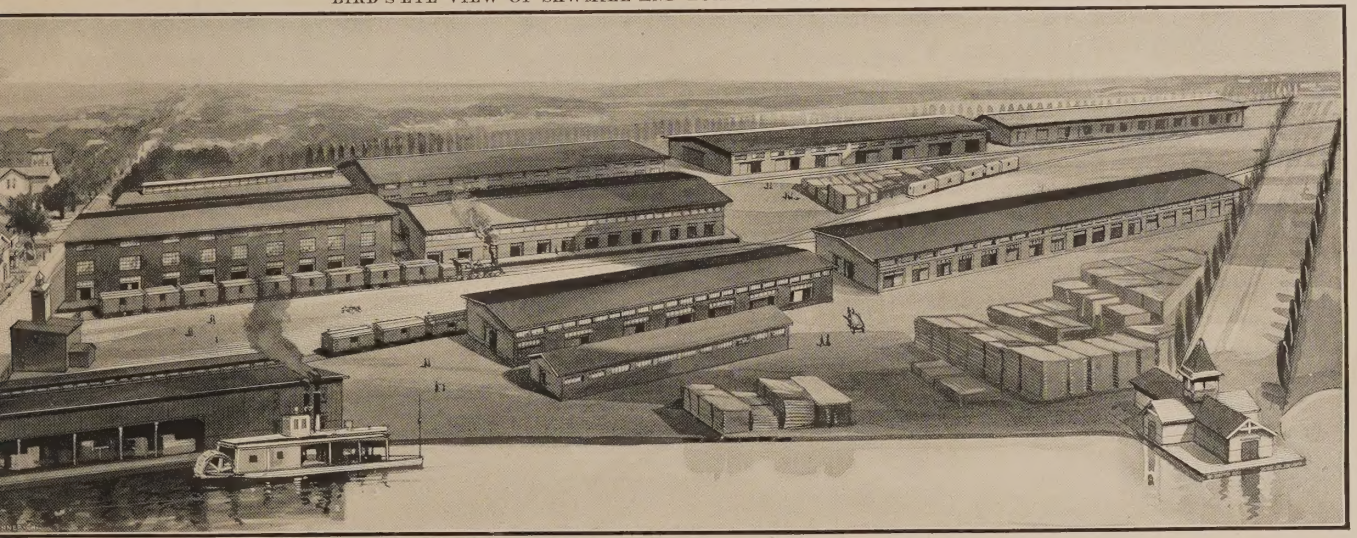


BIRD'S-EYE VIEW OF GENERAL PLANT—EAST DOCK

SAWMILL CAPACITY, 75,000,000 FEET PER ANNUM. LENGTH OF DOCKS, 2 MILES

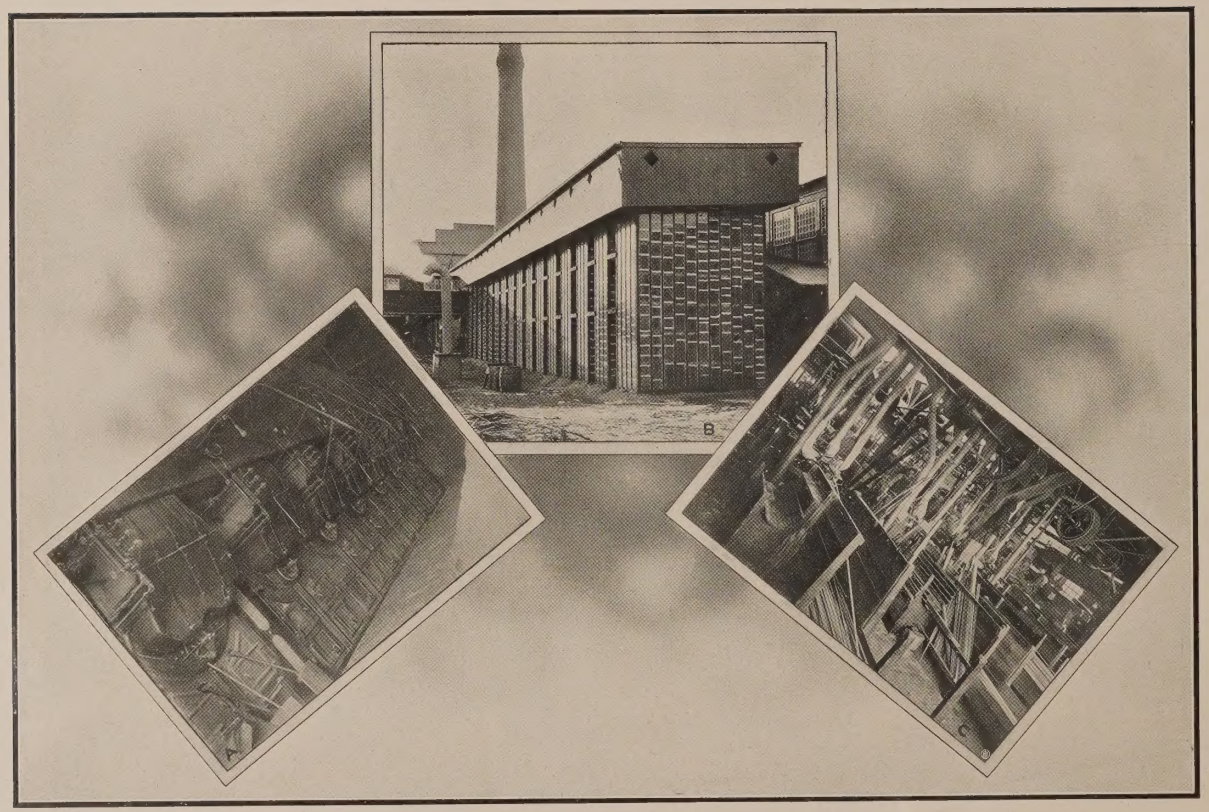


BIRD'S-EYE VIEW OF SAWMILL AND LUMBER YARDS—WEST DOCK



BIRD'S-EYE VIEW OF GENERAL PLANT—EAST DOCK

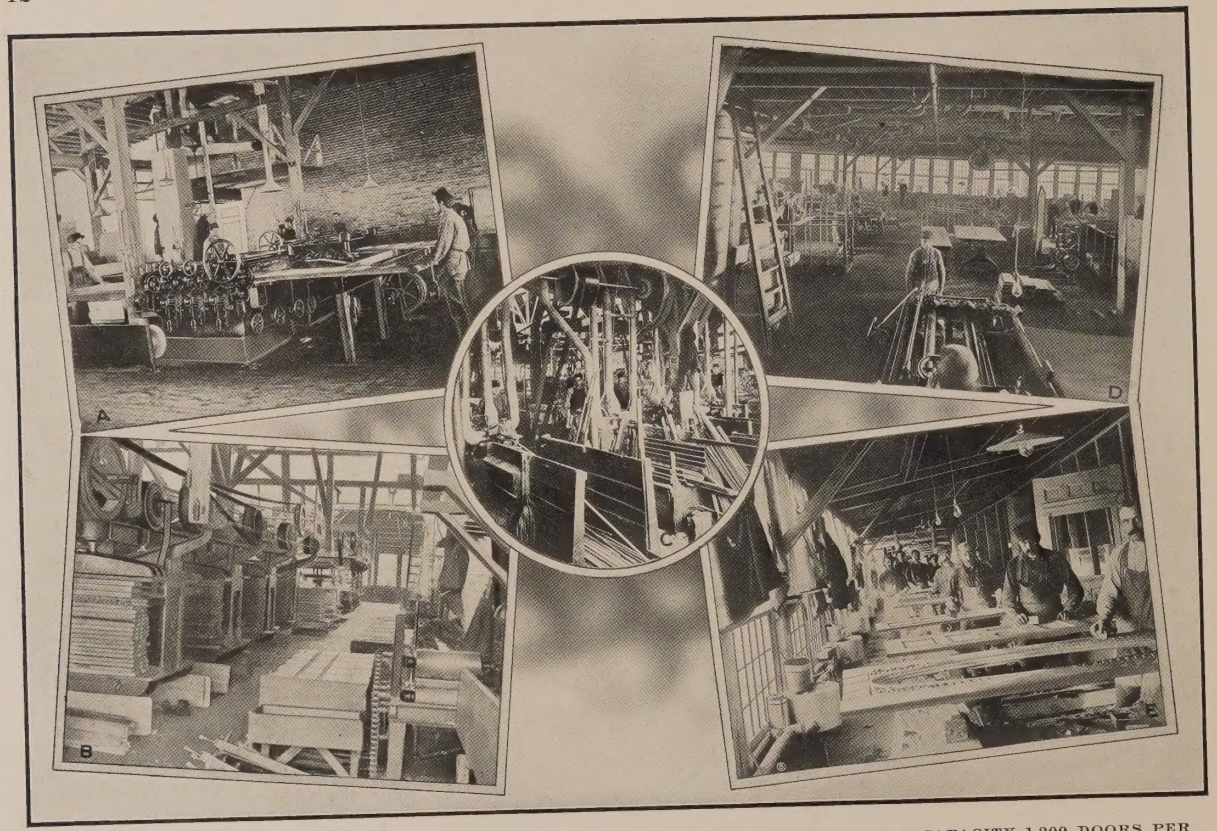
SASH, DOOR AND BLIND CAPACITY, 500 OPENINGS PER HOUR



"A"—BATTERY OF BOILERS IN POWER HOUSE No. 3 "B"—GLASS CONDENSERS ATTACHED TO DRY-KILNS SPECIALLY CONSTRUCTED FOR THE PROPER CURING OF HARDWOODS "C"—A GROUP OF MOULDERS

A PAIR OF SPECIAL CORE-LOCKING AND GLUING MACHINES—LENGTH, 32 FEET. SPECIALLY BUILT AND EXCLUSIVELY CONTROLLED FOR THE MANUFACTURE OF THE PERFECT CORES IN OUR VENEERED BIRCH DOORS.

SEE FULL-SIZED SECTIONS OF CORES, PAGE 32

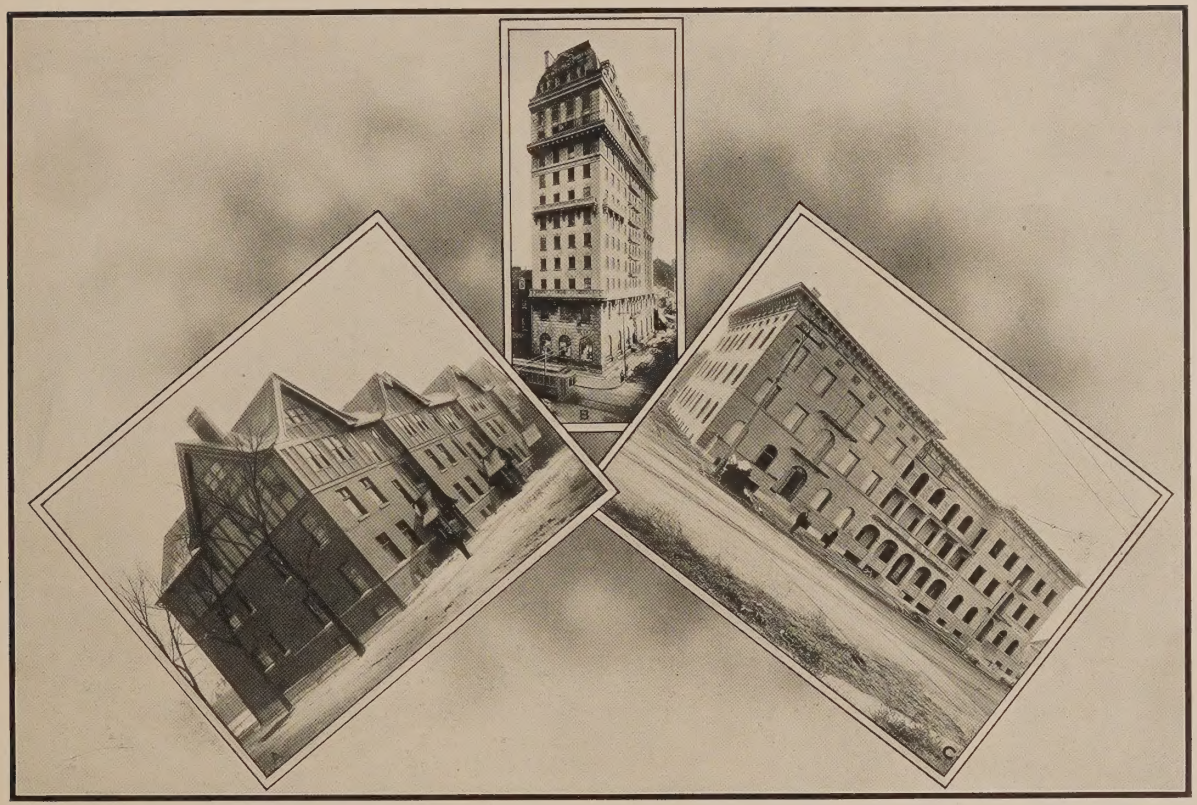


"A"—TRIPLE SANDERS AND POLISHERS. "B"—GROUP OF STEAM-POWER PRESSES—TOTAL CAPACITY 1,200 DOORS PER DAY, PRESSURE 1,000 LBS. TO THE SQUARE INCH. "C"—VIEW IN MOULDING DEPARTMENT. "D"—A SECTION OF MAIN MACHINE ROOM. "E"—GROUP OF BENCH WORKERS

"A"—APARTMENT BUILDING, CINCINNATI, OHIO. CHAS. MAYER, OWNER AND BUILDER
"B"—APARTMENT BUILDING, CLEVELAND, OHIO. MARTIN DAY, OWNER AND BUILDER. S. A. BADGLY, ARCHITECT
"C"—GORDON APARTMENTS, CHICAGO, ILL. BISHOP & CO., ARCHITECTS

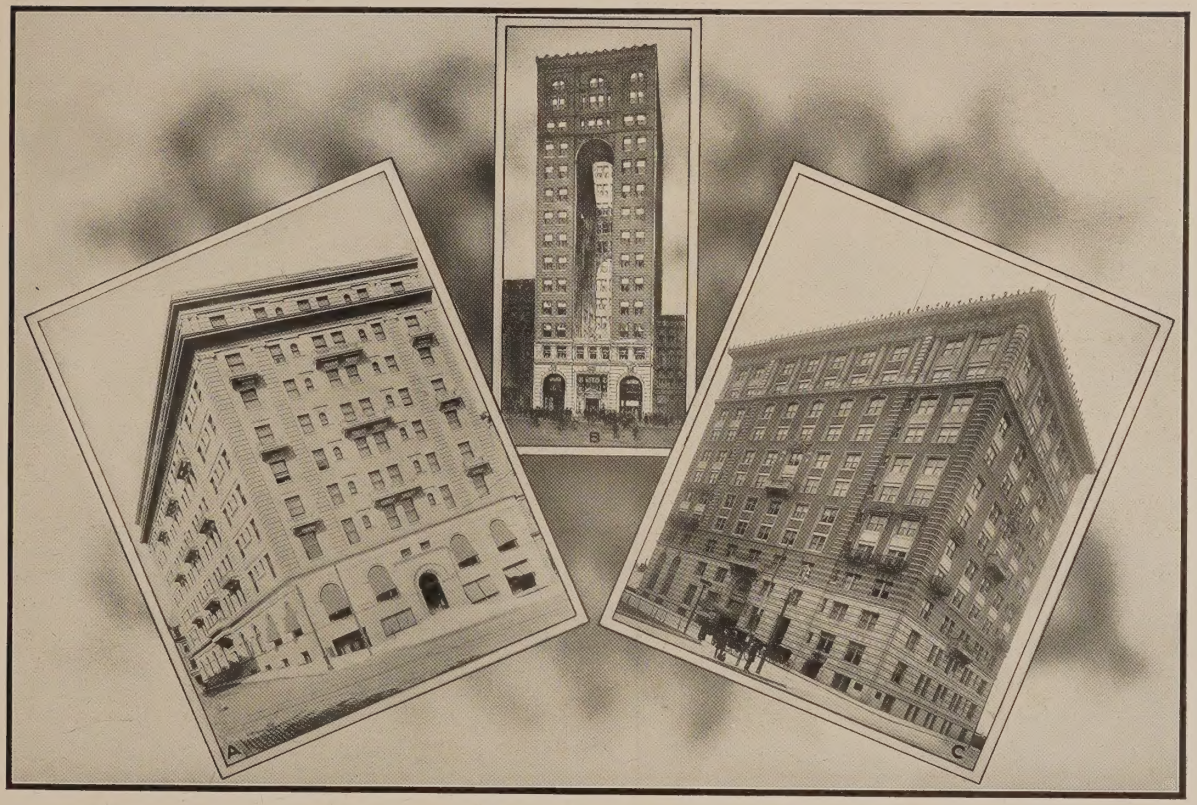
NEW "MOUNT WASHINGTON" HOTEL, FINISHED IN BIRCH

THIS SPLENDID NEW HOTEL IS SITUATED IN THE HEART OF THE WHITE MOUNTAINS, AND IS FINISHED THROUGHOUT IN WISCONSIN BIRCH. MOUNT PLEASANT HOTEL CO., PROPRIETORS. CHARLES ALLING GIFFORD, ARCHITECT, NEW YORK CITY



"A"—APARTMENT BUILDING, SOUTH EVANSTON, ILL. EDGAR O. BLAKE, ARCHITECT
"B"—"THE STAFFORD APARTMENT HOUSE," PHILADELPHIA, PA.
"C"—"ALTAMAHA" APARTMENT BUILDING, DENVER, COLORADO. J. E. HOLMBERG, OWNER. GEO. L. BETTCHER, ARCHITECT

THE BUILDINGS SHOWN ABOVE FORM THE IMMENSE AUDITORIUM HOTEL, AND ARE FINISHED ABOVE THE FIRST FLOOR IN "WISCONSIN BIRCH." THE BUILDING TO THE LEFT IS THE NEW "ANNEX." HOLABIRD & ROCHE ARE THE ARCHITECTS AND W. A. & A. E. WELLS, CONTRACTORS



"A"—HOTEL "TEN EYCK," ALBANY, N. Y. JONATHAN CLARK & SONS CO., CONTRACTORS. H. NEILL WILSON, ARCHITECT, PITTSFIELD, MASS.

"B"—KEYSTONE BANK BUILDING, PITTSBURG, PA. THOMPSON-STARRETT CO., CONTRACTORS, NEW YORK CITY. McCLURE & SHALER, ARCHITECTS, PITTSBURG

"C"—"LENOX" HOTEL, BOSTON, MASS., ARTHUR H. BOWDITCH, ARCHITECT. GEO. A. FULLER CO., CONTRACTORS, CHICAGO

COLOR SAMPLES OF WISCONSIN BIRCH

STAINED "MEDIUM MAHOGANY"

STAINED "GOLDEN BIRCH"

SEE INSTRUCTIONS FOR FINISHING ON OPPOSITE PAGE

THE METHODS THAT APPLY TO THE FINISH OF HARDWOODS IN GENERAL ARE APPLICABLE TO BIRCH. THE FIRST REQUISITE IS PERFECTLY DRY MATERIAL. MANY ARCHITECTS, CONTRACTORS OR OWNERS DO NOT REALIZE THAT ANY AND ALL WOODWORK AFTER BEING ONCE THOROUGHLY KILN-DRIED AND THEN EXPOSED IN THE WHITE RAPIDLY ABSORBS MOISTURE IN THE DEGREE THAT MAY EXIST IN THE ATMOSPHERE TO WHICH IT IS EXPOSED. THUS, PERFECTLY KILN-DRIED GOODS AFTER BEING EXPOSED IN THE WHITE IN WAREHOUSES, FREIGHT CARS, OR NEWLY CONSTRUCTED BUILDINGS ARE LIABLE TO BE UNFIT FOR A SATISFACTORY FINISH, EITHER PAINT OR VARNISH. AFTER THE WOODWORK IS IN PLACE, THE BUILDING SHOULD BE HEATED TO A TEMPERATURE FROM 10° TO 30° WARMER THAN NORMAL, AND MAINTAINED NIGHT AND DAY FOR A PERIOD OF NOT LESS THAN TWO WEEKS. THIS PRECAUTIONARY MEASURE WILL ABSOLUTELY PREVENT THE UNSIGHTLY APPEARANCE OF OPEN JOINTS AND UNFINISHED LINES OF EXPOSED WOOD CAUSED BY SHRINKAGE AFTER FINISH IS APPLIED. THE RESULTS ILLUSTRATED BY COLOR REPRODUCTIONS ON PRECEDING AND FOLLOWING PAGES ARE OBTAINED BY APPLYING ONE COAT OF STAIN AND ONE COAT OF SHELLAC. TO THIS FOUNDATION SHOULD BE ADDED TWO COATS OF STANDARD VARNISH. THE SMOOTH, MIRROR-LIKE FINISH SO DESIRABLE IS PRODUCED BY RUBBING THE VARNISHED SURFACE, THE HEIGHT OF THE POLISH BEING REGULATED BY THE AMOUNT OF RUBBING AND POLISHING DONE. ANY PAINTER FAMILIAR WITH THE USE OF STAIN AND VARNISH CAN PRODUCE THE COLOR EFFECTS AND FINISH OF OUR SAMPLES. WE INVITE CORRESPONDENCE ON THIS SUBJECT AND ARE PREPARED TO RECOMMEND OR FURNISH PROPER MATERIALS, ALSO DETAILED INSTRUCTIONS OR EXPERIENCED WORKMEN TO SUPERVISE.

STAINED WALNUT

FINISHED NATURAL

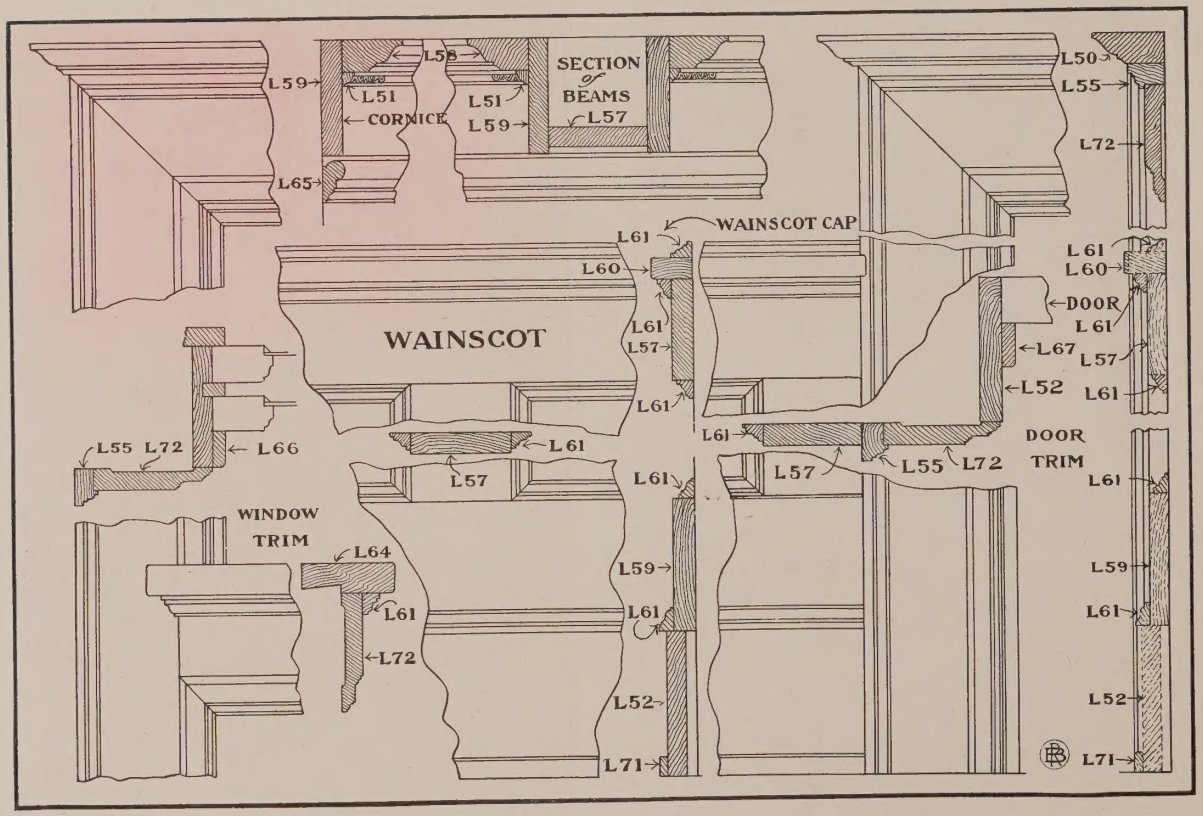
SEE INSTRUCTIONS FOR FINISHING ON PAGE 19

STAINED CHERRY

STAINED LIGHT MAHOGANY

SEE INSTRUCTIONS FOR FINISHING ON PAGE 19

DETAILS OF RECEPTION HALL TRIM IN STOCK BIRCH

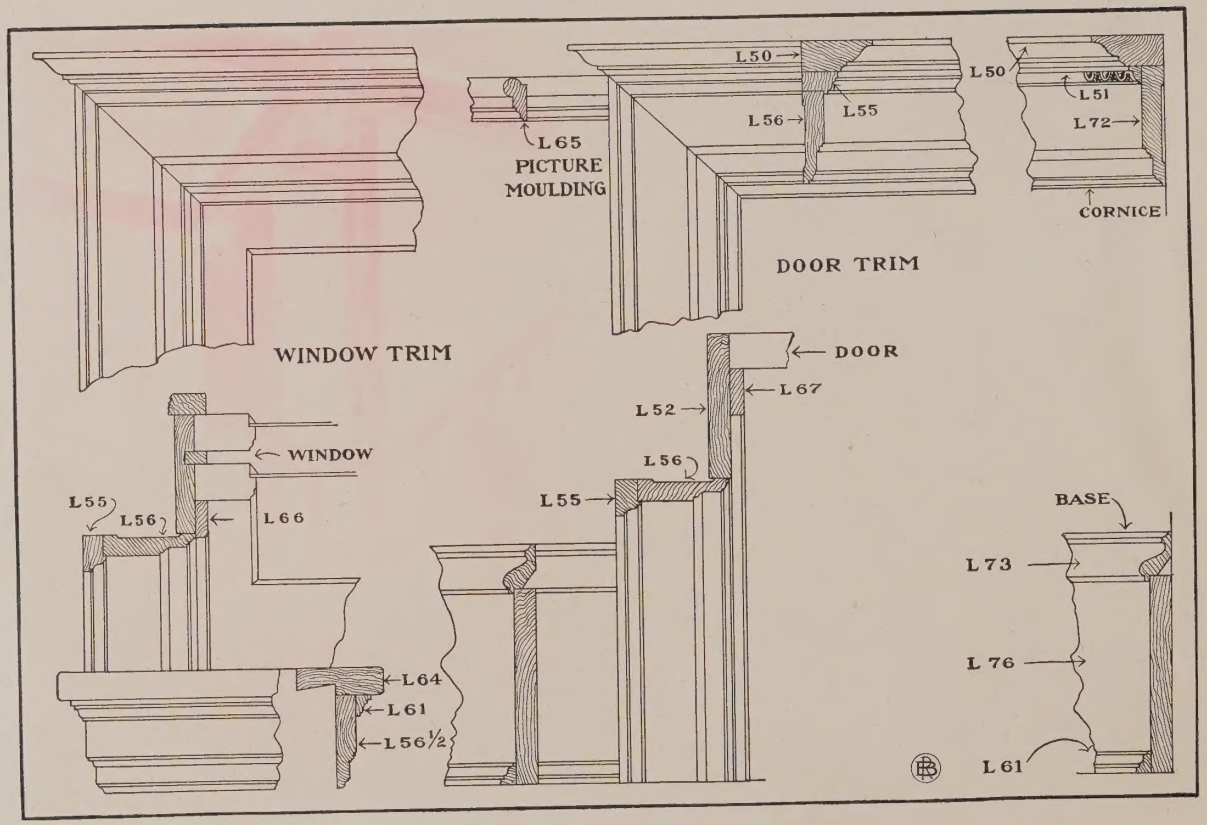


THE ABOVE SECTIONS FORM COMPLETE WORKING DETAILS OF THE RECEPTION HALL TRIM SHOWN ON OPPOSITE PAGE.

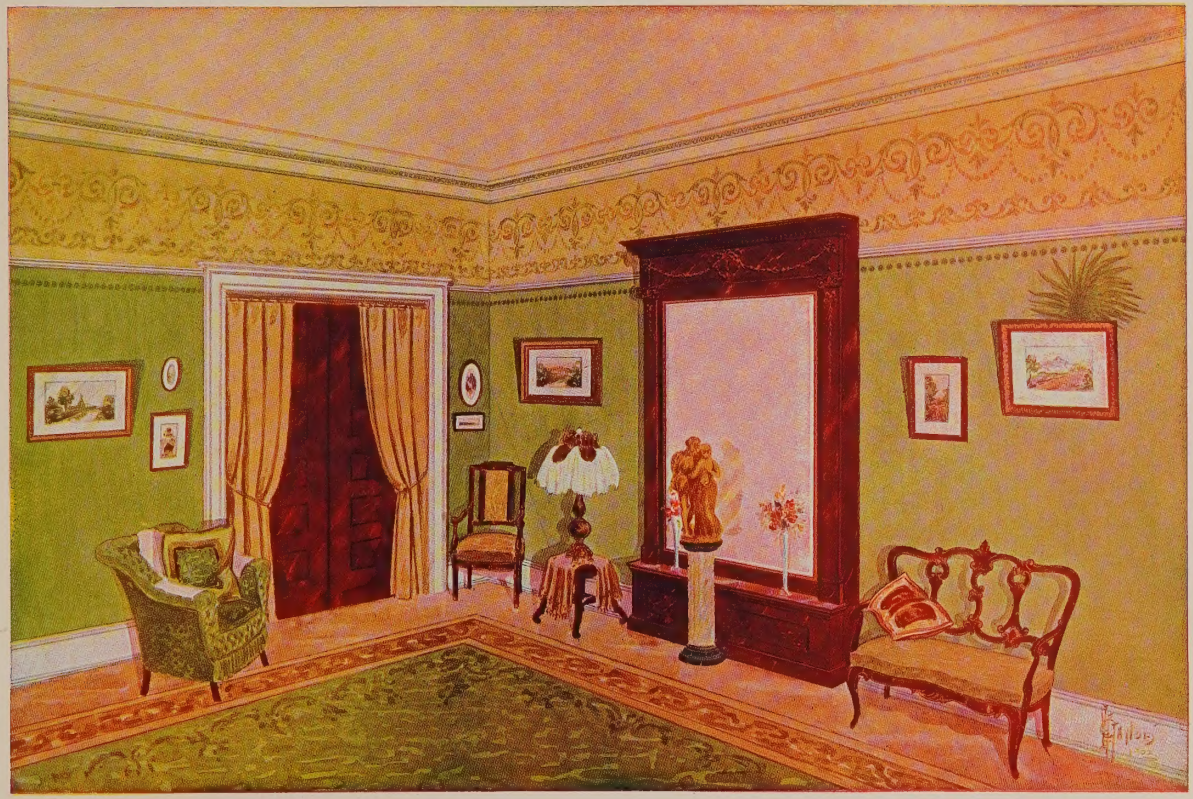
FOR FULL-SIZED SECTIONS AND LIST PRICES, SEE PAGES 36 TO 39

IN ABOVE SKETCH THE TRIM IS STOCK BIRCH, STAINED MAHOGANY. THE PANELS IN WAINSCOT CAN BE EITHER CEMENT OR BURLAPS, TINTED AS SHOWN. SEE COMPLETE WORKING DETAILS ON OPPOSITE PAGE

DETAILS OF PARLOR TRIM IN STOCK BIRCH



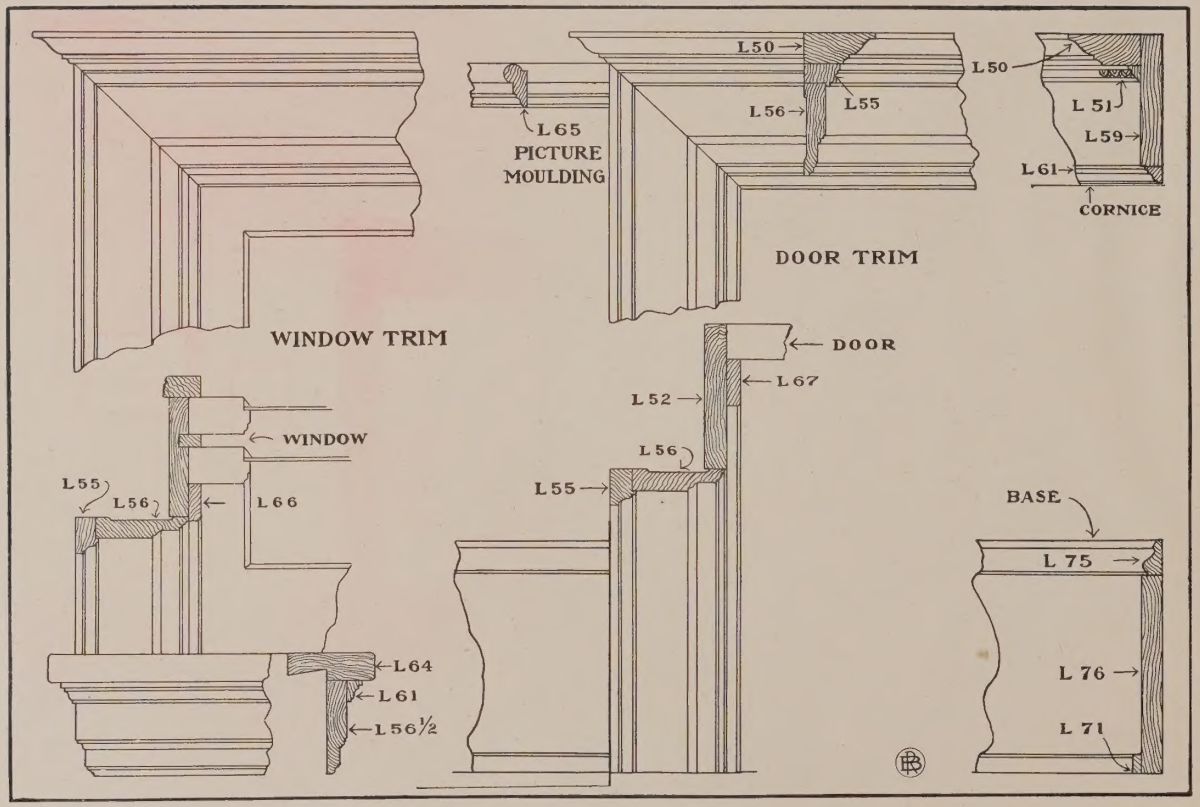
THE ABOVE SECTIONS FORM COMPLETE WORKING DETAILS OF THE PARLOR TRIM SHOWN ON OPPOSITE PAGE.
FOR FULL-SIZED SECTIONS AND LIST PRICES, SEE PAGES 36 TO 39



AMERICAN COLORTYPE CO., CHI. & N. Y.

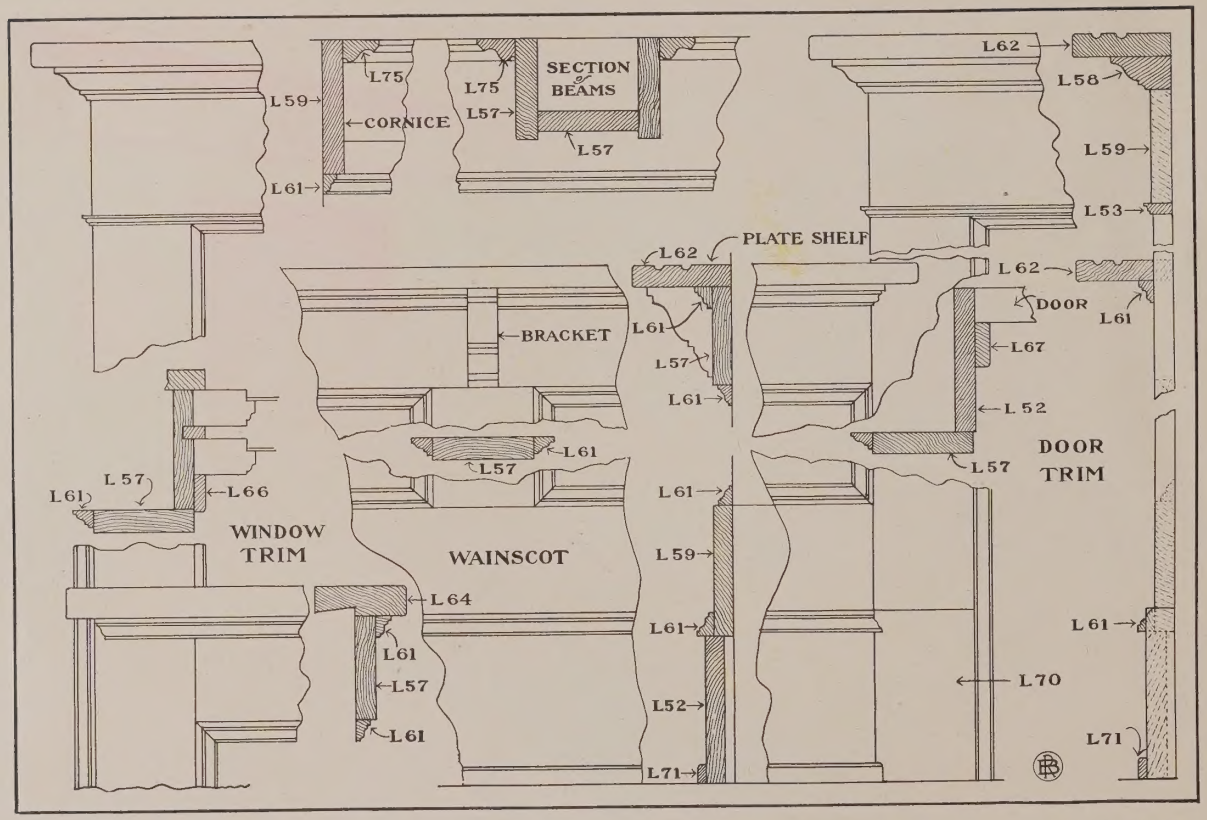
IN ABOVE SKETCH THE TRIM IS STOCK BIRCH, FINISHED WITH WHITE ENAMEL, AND THE DOORS AND CONSOL IN MAHOGANY STAIN. THE CORNICE IS TINTED TO HARMONIZE WITH THE DECORATIONS.

SEE COMPLETE WORKING DETAILS ON OPPOSITE PAGE

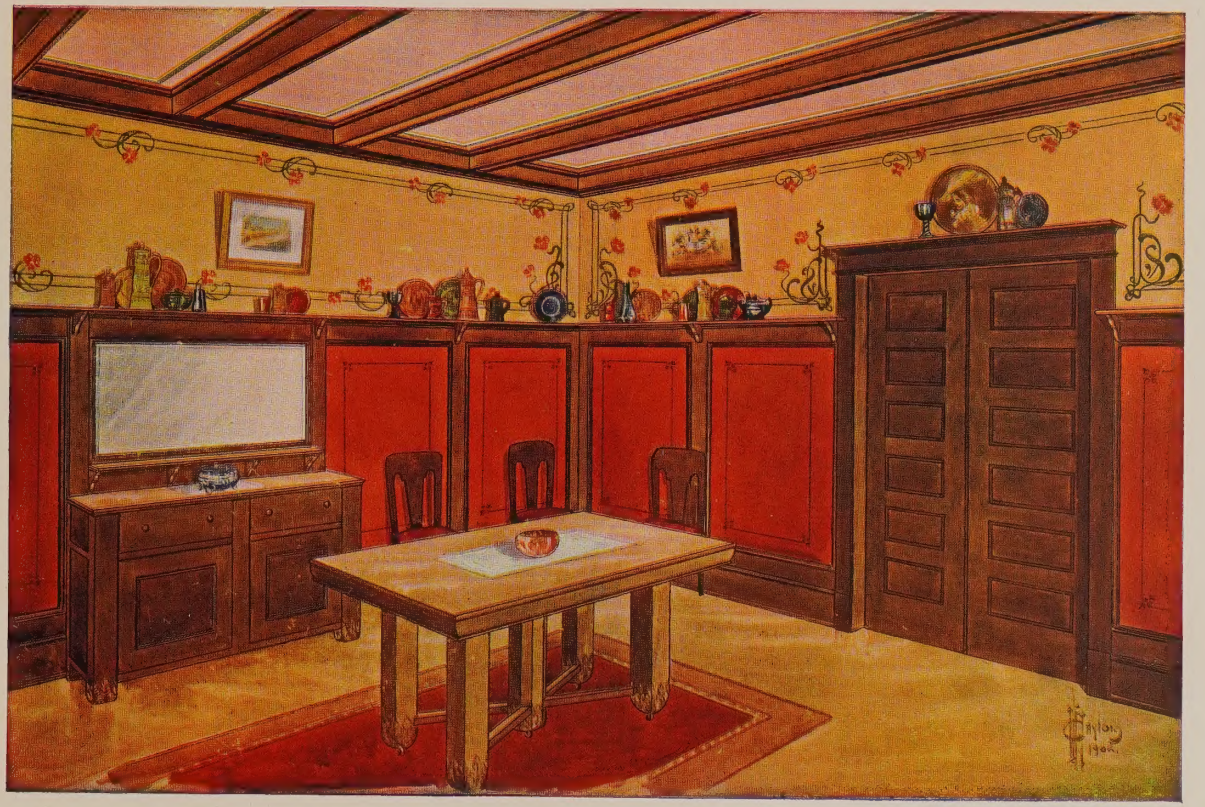


THE ABOVE SECTIONS FORM COMPLETE WORKING DETAILS OF THE LIBRARY TRIM ON OPPOSITE PAGE.
FOR FULL-SIZED SECTIONS AND LIST PRICES, SEE PAGES 36 TO 39

IN ABOVE SKETCH THE TRIM IS STOCK BIRCH STAINED MEDIUM MAHOGANY. SEE COMPLETE WORKING DETAILS ON OPPOSITE PAGE

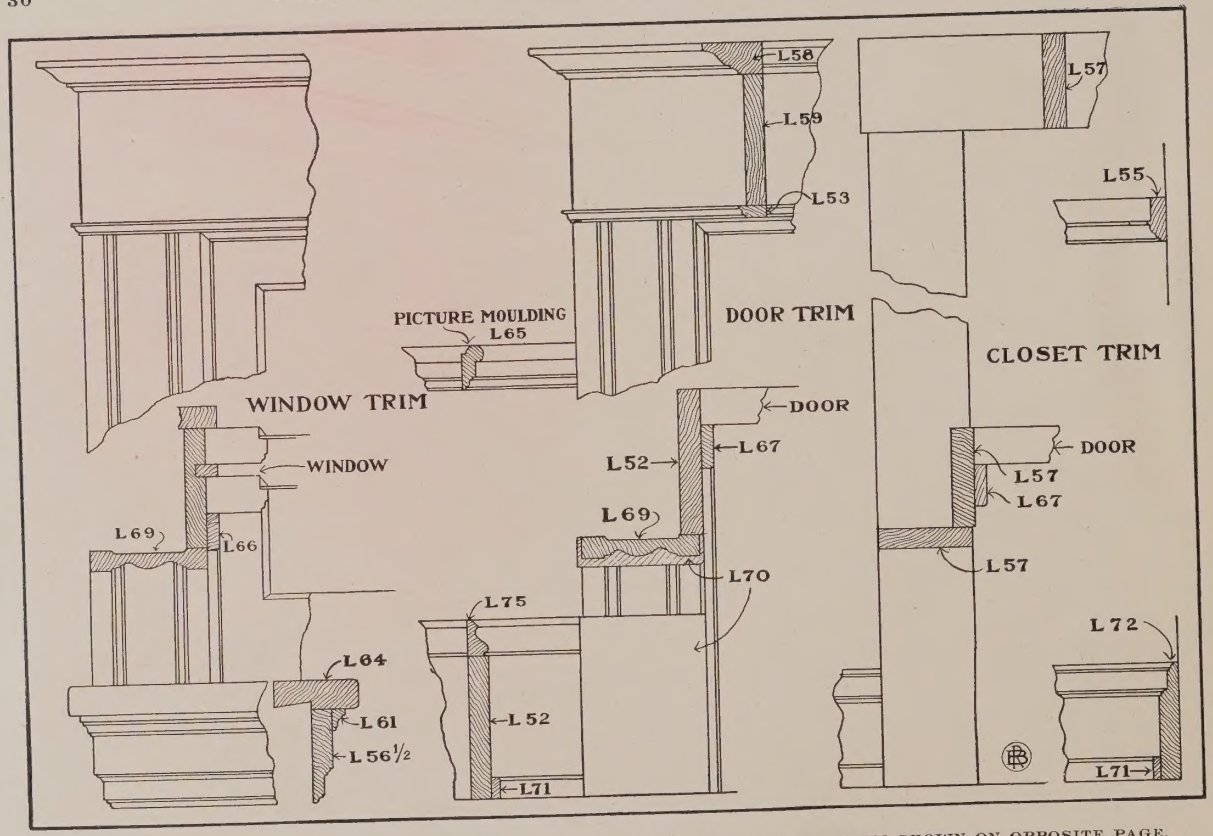


THE ABOVE SECTIONS FORM COMPLETE WORKING DETAILS OF THE DINING-ROOM TRIM SHOWN ON OPPOSITE PAGE.
FOR FULL-SIZED SECTIONS AND LIST PRICES, SEE PAGES 36 TO 39

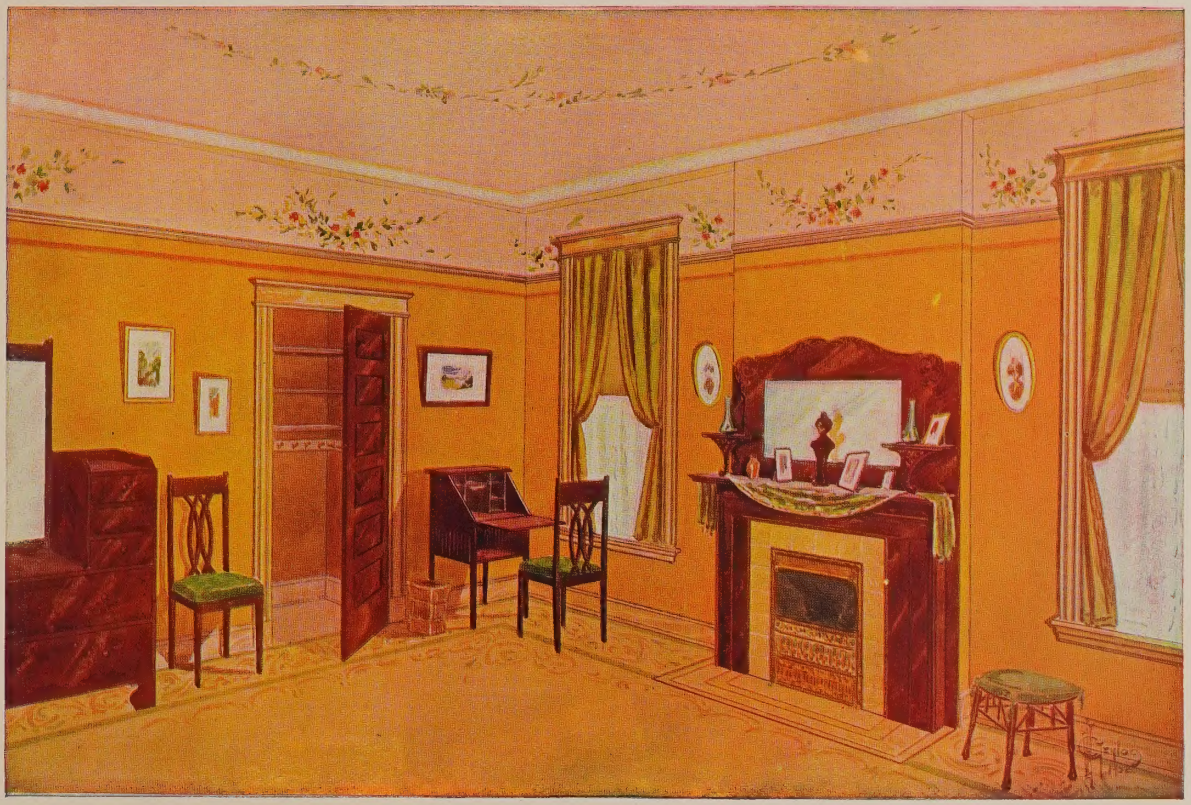


IN ABOVE SKETCH THE TRIM IS STOCK BIRCH STAINED WALNUT. THE PANELS IN WAINSCOT CAN BE EITHER CEMENT OR BURLAPS, TINTED AS SHOWN. SEE COMPLETE WORKING DETAILS ON OPPOSITE PAGE

DETAILS OF CHAMBER TRIM IN STOCK BIRCH

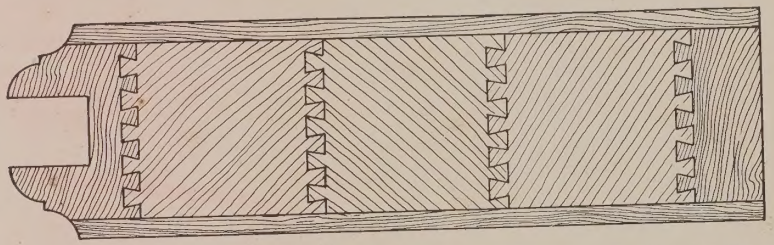


THE ABOVE SECTIONS FORM COMPLETE WORKING DETAILS OF THE CHAMBER TRIM SHOWN ON OPPOSITE PAGE.
FOR FULL-SIZED SECTIONS AND LIST PRICES, SEE PAGES 36 TO 39

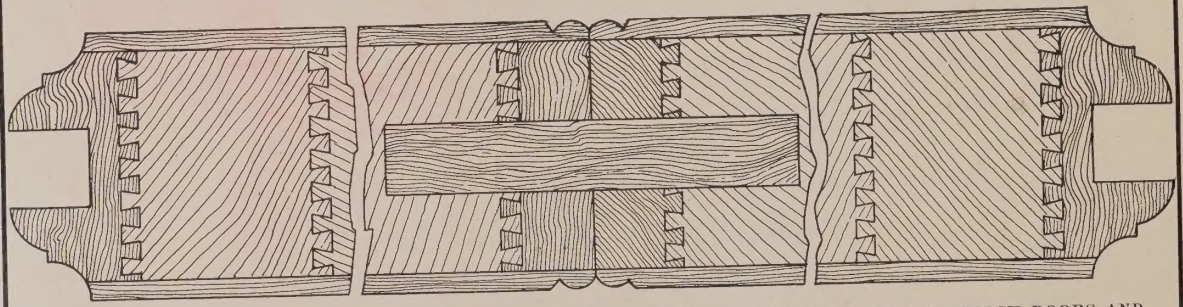


IN ABOVE SKETCH THE TRIM IS FINISHED NATURAL AND THE DOORS IN MAHOGANY STAIN. WHERE ECONOMY DEMANDS, YELLOW PINE TRIM CAN BE SUBSTITUTED FOR THE BIRCH. SEE COMPLETE WORKING DETAILS ON OPPOSITE PAGE

SECTIONS OF STOCK DOOR STILES



ABOVE SECTION SHOWS ACTUAL WIDTH OF STILES IN DOORS L 377 AND L 375, SHOWN ON PAGES 33 AND 34. THE LIGHT PORTIONS ARE SOFT WOOD AND DARK PARTS BIRCH. DOVE-TAILING MADE ON SPECIAL MACHINES, SEE PAGE 11

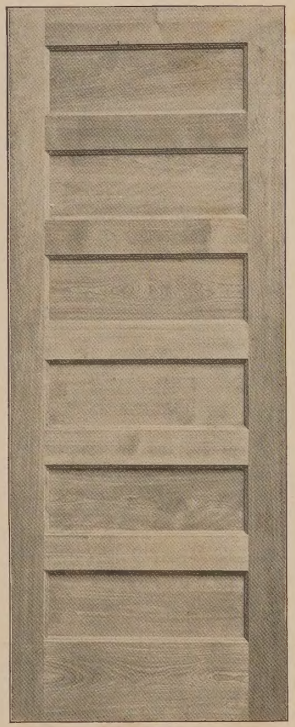


WIDE, SINGLE SLIDING DOORS CAN BE MADE QUICKLY BY PLOWING THE STILES OF TWO STOCK DOORS AND GLUING A HARDWOOD STRIP INTO THE OPENING AS ILLUSTRATED ABOVE. THIS METHOD IS PRACTICAL AND SAVES THE DELAY AND EXTRA EXPENSE OF SPECIALLY CONSTRUCTED DOORS

STOCK SIZES

1⅜ IN. TH'K

2– 0 x 6– 0
2– 0 x 6– 6
2– 4 x 6– 6
2– 6 x 6– 6
2– 0 x 6– 8
2– 2 x 6– 8
2– 4 x 6– 8
2– 6 x 6– 8
2– 8 x 6– 8
2–10 x 6–10
2– 0 x 7– 0
2– 2 x 7– 0
2– 4 x 7– 0
2– 6 x 7– 0
2– 8 x 7– 0
2–10 x 7– 0
3– 0 x 7– 0
2– 6 x 7– 6
2– 8 x 7– 6



L 377

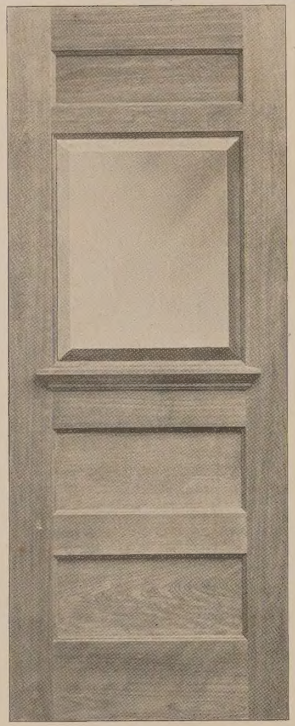
STOCK SIZES

1¾ IN. TH'K

2– 6 x 6– 8
2– 8 x 6– 8
2–10 x 6–10
2– 6 x 7– 0
2– 8 x 7– 0
2–10 x 7– 0
3– 0 x 7– 0
2– 6 x 7– 6
2– 8 x 7– 6
2–10 x 7– 6
3– 0 x 7– 6

THIS DOOR CARRIED IN STOCK IN SIZES NOTED ABOVE READY FOR PROMPT SHIPMENT

STATE QUANTITY REQUIRED IN WRITING FOR PRICES

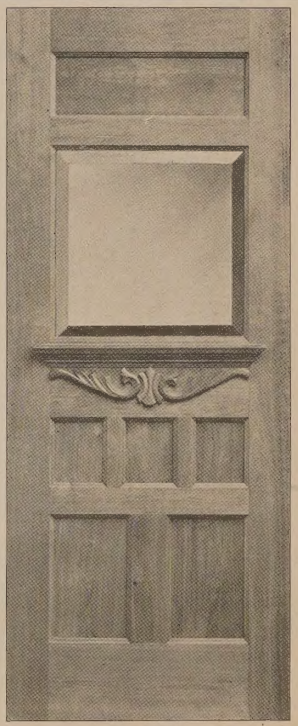


L 375
GLAZED BEVELED PLATE GLASS
STILES, 4⅞ IN. BOTTOM RAIL, 9½ IN.

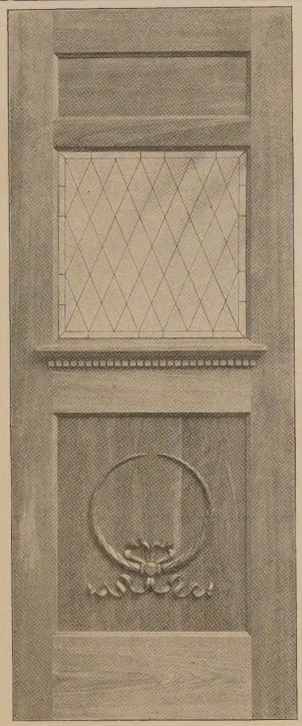
STOCK SIZES
L 375 AND L 378

2–	8	x	6– 8	–1⅜ IN. TH'K
2–	8	x	7– 0	" "
2–	8	x	6– 8	–1¾ "
2–	10	x	6– 10	" "
2–	8	x	7– 0	" "
2–	10	x	7– 0	" "
3–	0	x	7– 0	" "
3–	4	x	7– 0	" "

STATE QUANTITY IN WRITING
FOR PRICES



L 378
GLAZED BEVELED PLATE GLASS
STILES, 5½ IN. BOTTOM RAIL, 9½ IN.



L 379½
GLAZED LEADED D. S. GLASS
STILES, 5½ IN. BOTTOM RAIL, 9½ IN.

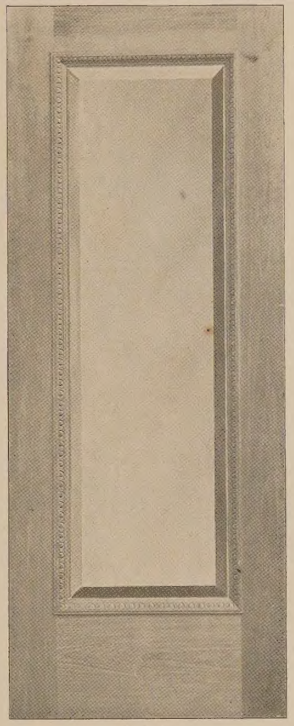
STOCK SIZES
L 379½

2– 8 x 6– 8	–1⅜	IN. TH'K
2– 8 x 7– 0	"	"
2– 8 x 6– 8	–1¾	"
2–10 x 6–10	"	"
2– 8 x 7– 0	"	"
2–10 x 7– 0	"	"
3– 0 x 7– 0	"	"
3– 4 x 7– 0	"	"

STATE QUANTITY IN WRITING FOR PRICES

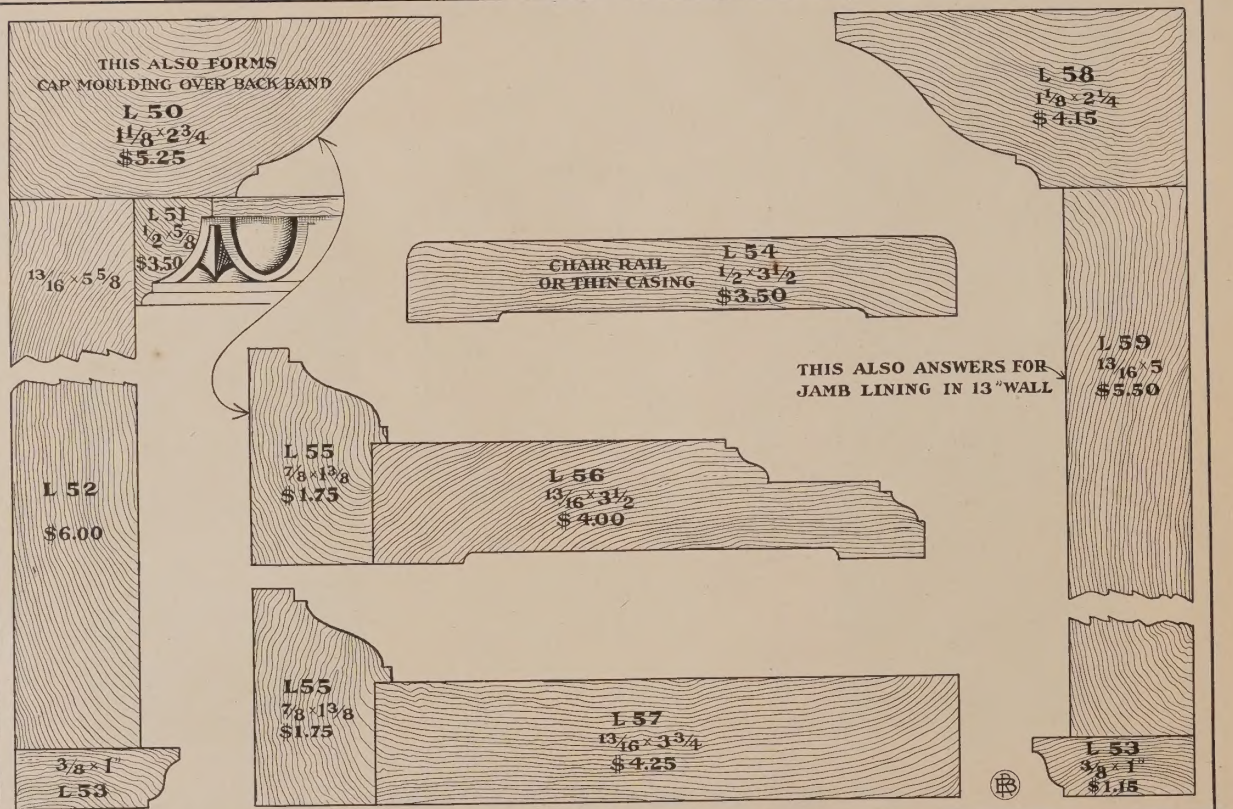
VESTIBULE DOOR DESIGN
L 380
HAS MACHINE-PRESSED EGG AND DART MOULDING OUTSIDE AND PLAIN MOULDING INSIDE

THIS DOOR MADE TO ORDER ON SPECIAL ORDER ONLY

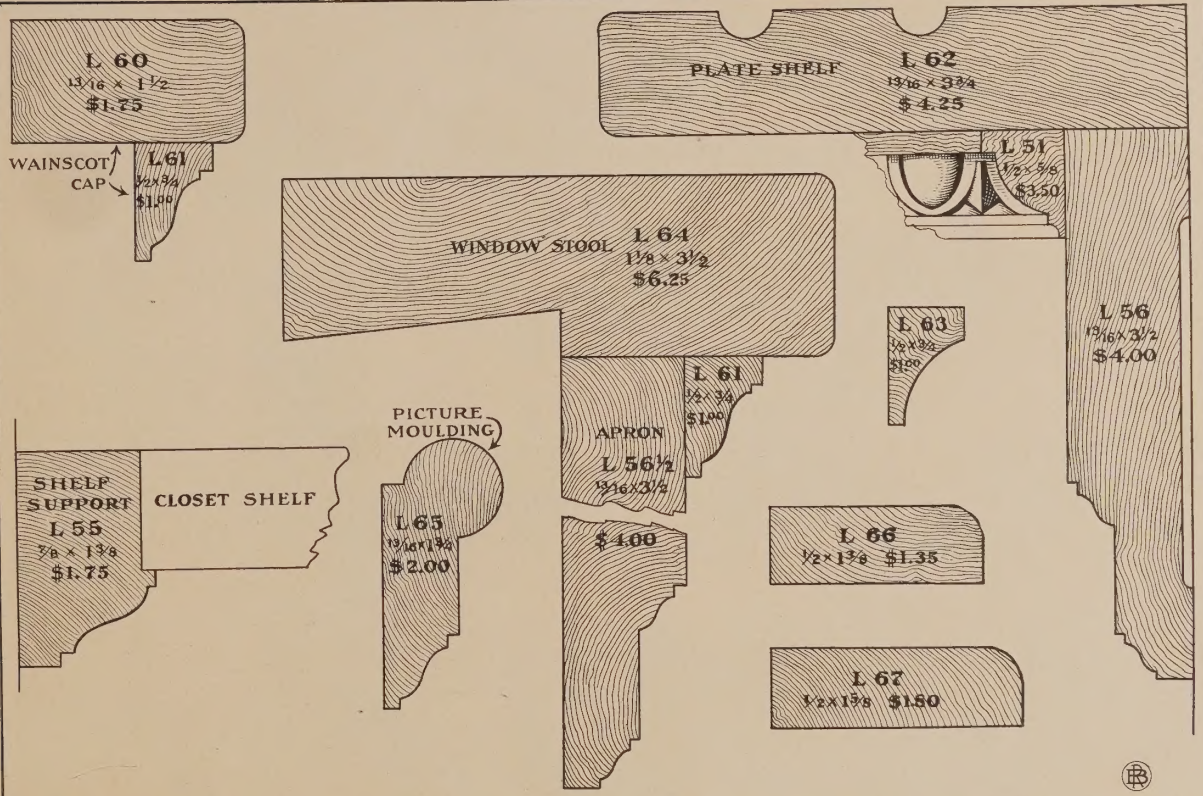


L 380
GLAZED BEVELED PLATE GLASS
STILES, 5½ IN. BOTTOM RAIL, 12 IN.

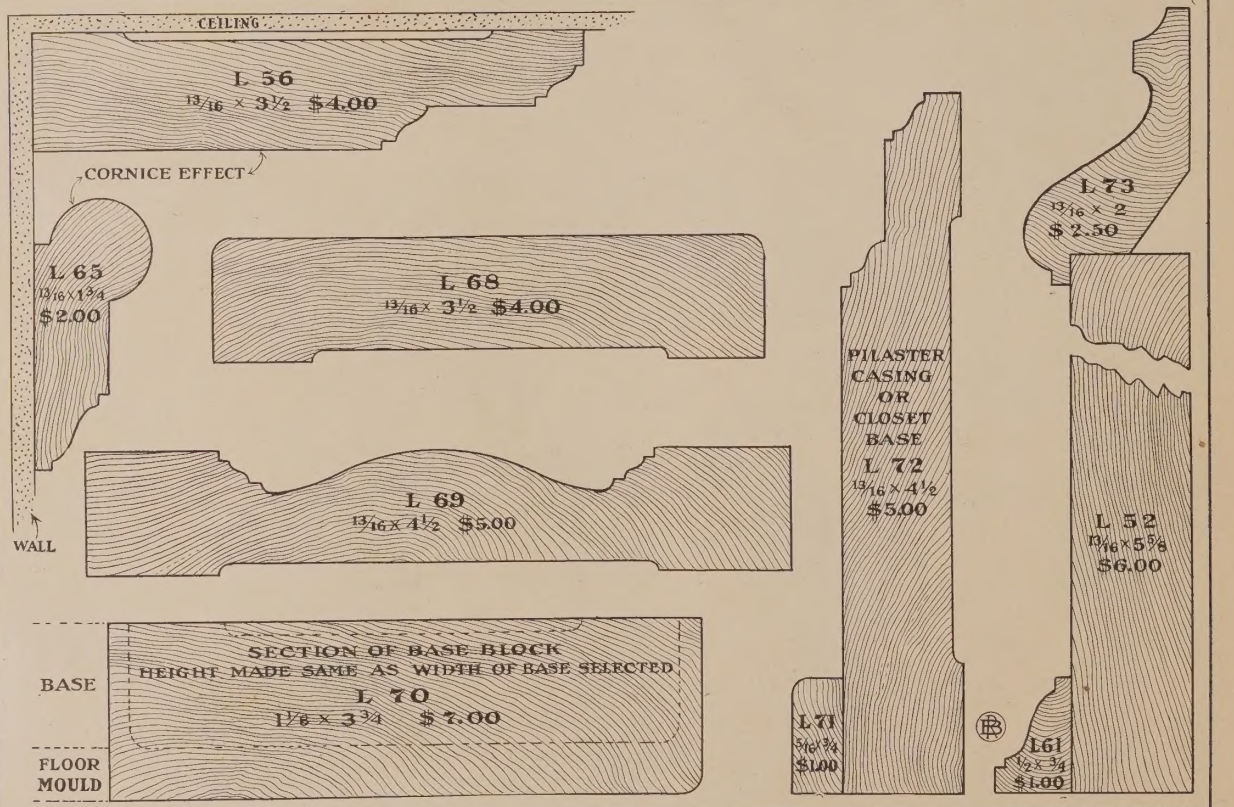
WISCONSIN BIRCH MOULDINGS IN STOCK



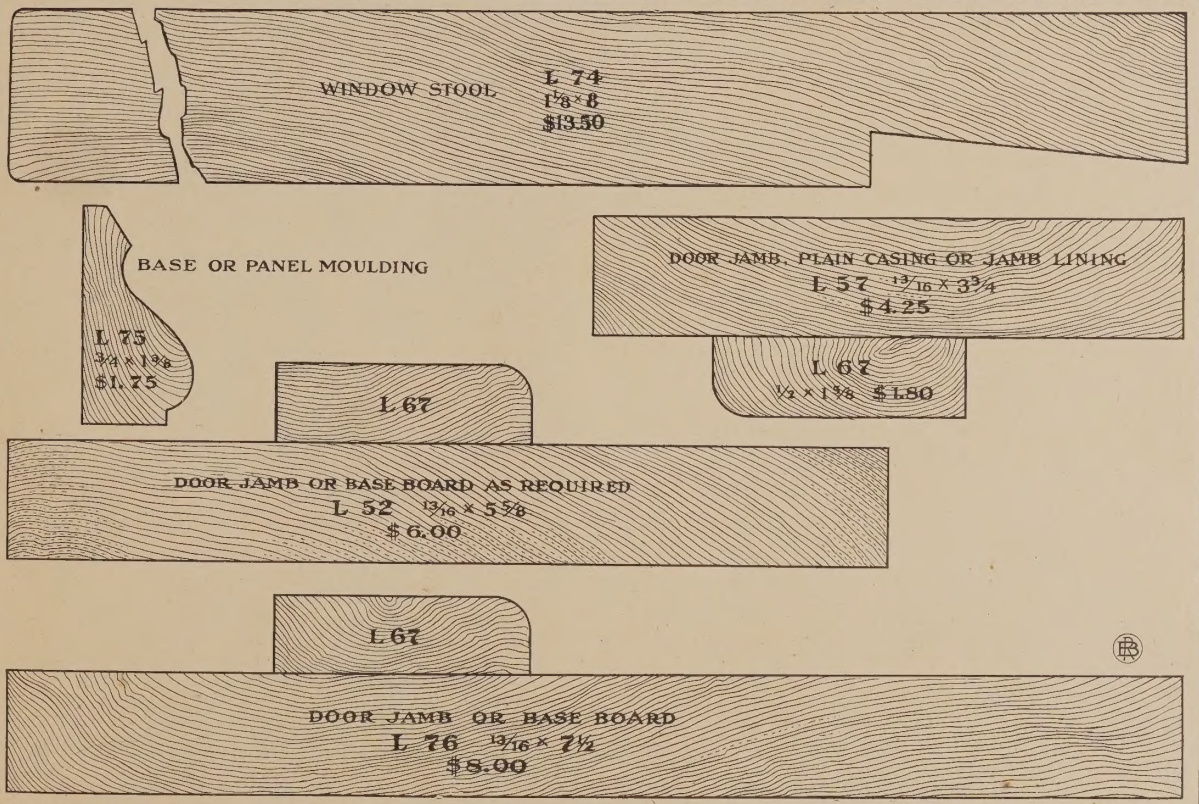
FOR PRACTICAL APPLICATIONS OF THESE DESIGNS, SEE PAGES 22 TO 31. PRICES LISTED ARE PER 100 LINEAL FEET.
STATE QUANTITIES REQUIRED IN WRITING FOR DISCOUNTS



FOR PRACTICAL APPLICATIONS OF THESE DESIGNS, SEE PAGES 22 TO 31. PRICES LISTED ARE PER 100 LINEAL FEET. STATE QUANTITIES REQUIRED IN WRITING FOR DISCOUNTS



FOR PRACTICAL APPLICATIONS OF THESE DESIGNS, SEE PAGES 22 TO 31. PRICES LISTED ARE PER 100 LINEAL FEET.
STATE QUANTITIES REQUIRED IN WRITING FOR DISCOUNTS



FOR PRACTICAL APPLICATIONS OF THESE DESIGNS, SEE PAGES 22 TO 31. PRICES LISTED ARE PER 100 LINEAL FEET.
STATE QUANTITIES REQUIRED IN WRITING FOR DISCOUNTS

THE TRIM IS FINISHED IN WHITE ENAMEL AND THE DOORS STAINED MAHOGANY TO MATCH THE GENUINE MAHOGANY MANTEL AND FURNITURE

AVERY LIBRARY
COLUMBIA UNIVERSITY

BIRCH